API NO. 15-101-21,812-00-00

County ____________________________

- E/2 - NW - NE Sec. 2  Twp. 16S  Rge. 27  X  W

660 Feet from SW (circle one) Line of Section
1650 Feet from NW (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
No. SE NW or SW (circle one)

Purchaser: NCRA

Operator Contact Person: John D. Farmer IV
Phone (785) 483-3144

Contractor: Discovery Drilling Co., Inc.
License: 31548
Wellsite Geologist: Kim B. Shoemaker

Designate Type of Completion
X New Well  _ Re-Entry  _ Workover

Oil  _ SWD  _ SWIOW  _ Temp. Abd.
Gas  _ ENWR  _ SWIOW
Dry  _ Other (Core, WSW, Expl., Cathodic, etc.)

If Workover/Re-Entry: old well info. as follows:

Operator: ____________________________
Well Name: ____________________________
Comp. Date: ____________________________
Old Total Depth: ________________________

Deepening: ____________________________
Re-perf: ____________________________
Conv. to Inj/SWD: ______________________
Plug Back: ____________________________
Commingled: ____________________________
Docket No.: ____________________________
Dual Completion: ________________________
Docket No.: ____________________________
Other (SWD or Inj?): __________________
Docket No.: ____________________________

5-2-03  5-11-03  5-23-03
Spud Date  Date Reached TD  Completion Date

Drilling Fluid Management Plan
(If Alternate II completion, cement circulated from 1950
feet depth to surface w/ 460 lb cmt.)

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market
Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well.
Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on one side of this form will be held confidential for a period of
12 months if requested in writing and submitted with the form. Any copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied
with and the statements herein are complete and correct to the best of my knowledge.

Signature: ____________________________
John D. Farmer III  President

Notary Public: ____________________________
Margaret A. Schulte

Date Commission Expires: 1-27-95

K.C.C. OFFICE USE ONLY

Letter of Confidentiality Attached
Wireline Log Received
Geologist Report Received
Distribution
KCC SWD/Rep NGPA
KGS Plug Other
(Specify)

Form ACO-1 (7-91)
Operator Name: John G. Farmer, Inc.

Lease Name: Offner/Curtis

Well #: 1

Sec. 2 Twp. 16S Rge. 27

County: 

Lane: 

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken

(Attach Additional Sheets.)

\(\checkmark\) Yes \(\checkmark\) No

<table>
<thead>
<tr>
<th>Name</th>
<th>Top</th>
<th>Datum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anhydrite</td>
<td>1944³ (+572)</td>
<td></td>
</tr>
<tr>
<td>Base/Anydrite</td>
<td>1980³ (+536)</td>
<td></td>
</tr>
<tr>
<td>Wabaunsee</td>
<td>3354¹ (-838)</td>
<td></td>
</tr>
<tr>
<td>Heebner</td>
<td>3744¹ (-1228)</td>
<td></td>
</tr>
<tr>
<td>Lansing</td>
<td>3783¹ (-1267)</td>
<td></td>
</tr>
</tbody>
</table>

| Stark | 4023¹ (-1507) |
| Base/KC | 4086¹ (-1570) |
| Fort Scott | 4280¹ (-1764) |
| Cherokee | 4306¹ (-1790) |
| Mississippi | 4370¹ (-1854) |
| L.T.D. | 4484¹ (-1968) |

Samples Sent to Geological Survey

\(\checkmark\) Yes \(\checkmark\) No

<table>
<thead>
<tr>
<th>Core Taken</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>12-1/4&quot;</td>
</tr>
<tr>
<td>No</td>
<td>12-1/4&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Core Taken</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>7-7/8&quot;</td>
</tr>
<tr>
<td>No</td>
<td>7-7/8&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Core Taken</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>5-1/2&quot;</td>
</tr>
<tr>
<td>No</td>
<td>5-1/2&quot;</td>
</tr>
</tbody>
</table>

List All E.Logs Run: Cement Bond Log Microresistivity Log

Dual Compensated Porosity Log Dual Induction Log

Borehole Compensated Sonic Log Radiation Guard Log

CASING RECORD

\(\checkmark\) New \(\checkmark\) Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String

<table>
<thead>
<tr>
<th>Purpose of String</th>
<th>Size Hole</th>
<th>Size Casing</th>
<th>Weight</th>
<th>Setting</th>
<th>Type of Cement</th>
<th>Type and Percent Additives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface</td>
<td>12-1/4&quot;</td>
<td>8-5/8&quot;</td>
<td>20#</td>
<td>223¹</td>
<td>Common</td>
<td>3% CC, 2% gel</td>
</tr>
<tr>
<td>Production</td>
<td>7-7/8&quot;</td>
<td>5-1/2&quot;</td>
<td>15.5#</td>
<td>4471¹</td>
<td>ASC</td>
<td>2% gel, 500 gal. WFR-2, 3/4% FL-10</td>
</tr>
</tbody>
</table>

DV Tool 1950¹ Lite 460 1/4# Flo-seal

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose: Perforate Protect Casing Plug Back TD Plug Off Zone

<table>
<thead>
<tr>
<th>Depth</th>
<th>Type of Cement</th>
<th># Sacks Used</th>
<th>Type and Percent Additives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top</td>
<td>Backside cement job</td>
<td>100</td>
<td>60-40 Pozmix, 6% gel</td>
</tr>
<tr>
<td>Bottom</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated

Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth

4 SPF 350 gals. 20% NE

4388-4396¹

TUBING RECORD

<table>
<thead>
<tr>
<th>Size</th>
<th>Size</th>
<th>Set At</th>
<th>Packer At</th>
<th>Liner Run</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-7/8&quot;</td>
<td>4447¹</td>
<td></td>
<td></td>
<td>Yes</td>
</tr>
</tbody>
</table>

Date of First, Resumed Production, SWD or Inj.

May 30, 2003

Producing Method

<table>
<thead>
<tr>
<th>Flowing</th>
<th>Pumping</th>
<th>Gas Lift</th>
<th>Other (Explain)</th>
</tr>
</thead>
</table>

Estimated Production Per 24 Hours

<table>
<thead>
<tr>
<th>Oil</th>
<th>Gas</th>
<th>Mcf</th>
<th>Water</th>
<th>Bbls.</th>
<th>Gas-Oil Ratio</th>
<th>Gravity</th>
</tr>
</thead>
<tbody>
<tr>
<td>41.75</td>
<td></td>
<td></td>
<td>3.34</td>
<td></td>
<td>39.1⁰</td>
<td></td>
</tr>
</tbody>
</table>

Disposition of Gas:

Vented Sold Used on Lease

If vented, submit ACO-18.

METHOD OF COMPLETION

<table>
<thead>
<tr>
<th>Open Hole</th>
<th>Perf.</th>
<th>Dually Comp.</th>
<th>Commingled</th>
</tr>
</thead>
</table>

Production Interval

4388-4396¹
**DRILLER'S LOG**

Operator: John O. Farmer, Inc.  
PO Box 352  
Russell, KS  67665

Contractor: Discovery Drilling Co., Inc.  
PO Box 763  
Hays, KS  67601

Lease: Offner #1

Location: E/2 / NW / NE  
Sec. 2/16S/27W  
Lane Co., KS

Loggers Total Depth: 4484'  
Rotary Total Depth: 4480'  
Commaned: 5/2/03  
Casing: 8 5/8" @ 222.95' w/150sks  
5 1/2" @ 4471' w/ 175 sks  
DV Tool @ 1950' w/460 sks

Elevation: 2508' GL / 2516' KB  
Completed: 5/12/03  
Status: Oil Well

**DEPTH & FORMATIONS**  
(All from KB)

<table>
<thead>
<tr>
<th>Surface, Sand &amp; Shale</th>
<th>0'</th>
<th>Shale</th>
<th>1980'</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dakota Sand</td>
<td>978'</td>
<td>Shale &amp; Lime</td>
<td>2471'</td>
</tr>
<tr>
<td>Shale</td>
<td>1100'</td>
<td>Shale</td>
<td>2988'</td>
</tr>
<tr>
<td>Cedar Hill Sand</td>
<td>1450'</td>
<td>Shale &amp; Lime</td>
<td>3496'</td>
</tr>
<tr>
<td>Red Bed Shale</td>
<td>1715'</td>
<td>Lime &amp; Shale</td>
<td>3786'</td>
</tr>
<tr>
<td>Anhydrite</td>
<td>1942'</td>
<td>RTD</td>
<td>4480'</td>
</tr>
<tr>
<td>Base Anhydrite</td>
<td>1980'</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**STATE OF KANSAS**  
**COUNTY OF ELLIS**  

Thomas H. Alm of Discovery Drilling states that to the best of his knowledge the above and foregoing is a true and correct log of the above captioned well.

Thomas H. Alm

Subscribed and sworn to before me on 5-15-03

My Commission expires: 8-9-03

(Place stamp or seal below)  
GLENNA S. ALM  
Notary Public
**ALLIED CEMENTING CO., INC.**

**CONFIDENTIAL**

**REMIT TO**
P.O. Box 352
Russell, Kansas 67665

**MAY - 8  REED  SERVICE POINT:**

**DATE**
5-2-03

**SEC.**
2

**TWP.**
16

**RANGE**
27 W

**CALLED OUT**
6:00 PM

**ON LOCATION**
9:30AM

**JOB STARS**
11:00AM

**JOB FINISH**
11:30PM

**LEASE**
Offset

**WELL #**
28

**LOCATION**
Quintess Rd. north from curves

**COUNTY**
Nea City

**STATE**
KS

**CONTRACTOR**
Discovery #2

**OWNER**
John O. Farman

**CEMENT AMOUNT ORDERED**
655 cft common 342

**COMMON**
33.4c

**GEL**
3

**CHLORIDE**
5.4c

**PRESS. MAX**

**MEAS. LINE**

**SHOE JOINT**

**Cement left in csg.**
approx 13'

**DISPLACEMENT**
13.2 BPI

**EQUIPMENT**

**PUMP TRUCK**
Jack

**BULK TRUCK**
Jim

**HELPERS**

**DRIVER**
Steve

**REMARKS:**
Run 5 ft. 8-3/8 cpg cement with 150 cft cement. Displace plug with 1/2 cpg fresh water. Cement did sit.

**HANDLING**
163.44 @ 1.15 187.45

**MILEAGE**
183.46 @ .39 801.85

**TOTAL**
1777.25

**SERVICE**

**DEPTH OF JOB**
223'

**PUMP TRUCK CHARGE**

**EXTRA FOOTAGE**

**MILEAGE**
37.4M @ 3.80 139.30

**PLUG**
1-8-3/8 wood @ 46.00 46.00

**TOTAL**
644.60

**FLOAT EQUIPMENT**

**RELEASED FROM**

**TOTAL**

**TAX**

**TOTAL CHARGE**

**DISCOUNT**

**PRINTED NAME**

---

To Allied Cementing Co., Inc.  
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

**SIGNATURE**

**PRINTED NAME**
**ALLIED CEMENTING CO., INC.**

**CONFIDENTIAL**

**REMIT TO:** PO. BOX 31
**RUSSELL, KANSAS 67665**

**SERVICE POINT:**

**OAKLEY**

**DATE:** 5-12-03
**SECTION:** 165
**TWP.:** 27N
**RANGE:** 7W
**CALL OUT:** 900 AM
**LOCATION:** LISCA, 3W - 40 - 2 W / S W 20-60

**CONTRACTOR:** DISCOVERY REL. 2

**TYPE OF JOB:** Production stage “Bottom Stage”

**HOLE SIZE:** 7 3/4’’ T.D.

**CASING SIZE:** 5 3/8’’ DEPTH 4470’

**TUBING SIZE:** DEPTH

**DRILL PIPE:** DEPTH

**MEAS. LINE:** SHOE JOINT 15

**TOOL:** 14’’ DEPTH 1950’

**PRESS. MAX:** 3500 PSI
**MINIMUM:** 2000 PSI

**CEMENT LEFT IN CSG:** 15’

**PERFS.:**

**DISPLACEMENT:** 600 GALL. WATER 468 GALL. GY

**EQUIPMENT:**

- **PUMP TRUCK:** TERRY
  - **# 300 HELPER:** WAYNE
  - **# 315 DRIVER:** LARRY
  - **# 361 DRIVER:** Lonnie

**REMARKS:**

- MIX 500 GALL. WFR - 2 3400 GALL. WATER
  - FOLLOWED BY 175 SKS ASC 2% ECL
  - 3G SI 1 PL - 10, DISPLACE WITH 600 GALL WATER 468 GALL. GY, PLUG BART’N
  - LASH, THAT HELD

**CHARGE TO:** John O. Farmer, Inc.

**STREET:**

**CITY**

**STATE**

**ZIP**

---

To Allied Cementing Co., Inc.

You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

**SIGNATURE:** [Signature]

---

**REPRESENTATIVE:** Interest in.

**PRINTED NAME:** [Signature]

---

**RECEIVED:** JUN 26 2003

**KCC WICHITA**

**CONFIDENTIAL**

**FREIGHT**

- **TOTAL CHARGE**
  - **TAX**
  - **TOTAL CHARGE**
  - **DISCOUNT**
  - **IF PAID IN 30 DAYS**

---

**REPRESENTATIVE:** [Signature]

---

**PRINTED NAME:** [Signature]
## Allied Cementing Co., Inc.

**Confidential**

### Service Details
- **Date:** 5-12-03
- **Location:** Location
- **Contractor:** Discovery Rig #2
- **Owner:** SAME
- **Cement:** Amount Ordered: 475 Skts @ 1/2 @ $0.50

### Equipment
- **Pump Truck:** CEMENTER TERRY
- **Bulk Truck 1:** DRIVER LOWMAN
- **Bulk Truck 2:** DRIVER LARRY

### Handling
- **Handling:** 475 Skts @ 1/2 @ $0.50
- **Mileage:** 50.82

### Remarks
- **Max 15 Skts. Rat Hole:**
- **Max 460 Skts. Left in: Flo-Seal:**
- **Depth of Job:** 1950'
- **Thank You**

### Service
- **Depth of Job:** 1950'
- **Flo-Seal:** 1 1/2 @ $0.50
- **Total:** 650.00

### Float Equipment
- **Tax:**
- **Total Charge:**
- **Discount:** IF PAID IN FULL

### Signature
- **Ann Wearley**

---

To Allied Cementing Co., Inc.

You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.
To Allied Cementing Co., Inc.

You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE:  [Signature]

Printed Name:  [Printed Name]